

CLAIMS

What is claimed is:

1. A wireless mobile phone comprising:
  - a plurality of light emitting devices (LEDs);
  - a visualization controller coupled to the LEDs to selectively activate and deactivate the LEDs as requested; and
  - at least one visualization client coupled to the visualization controller to request the visualization controller to selectively activate and deactivate the LEDs in at least one desired manner to effectuate visualization of at least one non-visual aspect of wireless mobile telephony.
2. The wireless mobile phone of claim 1, wherein the wireless mobile phone further comprises display means of a second type, in addition to said LEDs, for displaying alphanumeric data including menu and commands.
3. The wireless mobile phone of claim 1, wherein said at least one visualization client comprises an event visualization client, said at least one non-visual aspect of wireless mobile telephony to be visualized comprises an incoming call being placed to the wireless mobile phone, and said visualization comprises a pattern of activation and deactivation of the LEDs to denote the arrival of the incoming call.

1 4. The wireless mobile phone of claim 1, wherein said at least one visualization  
2 client comprises an event visualization client, said at least one non-visual aspect of  
3 wireless mobile telephony to be visualized comprises menu item selection, and said  
4 visualization comprises a pattern of activation and deactivation of the LEDs denoting a  
5 key stroking pattern corresponding to the menu item selected.

1 5. The wireless mobile phone of claim 1, wherein said at least one visualization  
2 client comprises a text visualization client, said at least one non-visual aspect of  
3 wireless mobile telephony to be visualized comprises text messages of a non-audible  
4 call, and said visualization comprises a pattern of activation and deactivation of the  
5 LEDs denoting Morse code representations of the textual contents of the text  
6 messages. .

1 6. The wireless mobile phone of claim 1, wherein said at least one visualization  
2 client comprises an event visualization client, said at least one non-visual aspect of  
3 wireless mobile telephony to be visualized comprises an idle state, and said  
4 visualization comprises a predetermined pattern of activation and deactivation of the  
5 LEDs.

1 7. The wireless mobile phone of claim 1, wherein said at least one visualization  
2 client comprises an event visualization client, said at least one non-visual aspect of  
3 wireless mobile telephony to be visualized comprises non-graphics contents being

4 rendered, and said visualization comprises a pattern of activation and deactivation of  
5 the LEDs depicting various graphics.

1 8. The wireless mobile phone of claim 1, wherein said at least one visualization  
2 client comprises a sound visualization client, said at least one non-visual aspect of  
3 wireless mobile telephony to be visualized comprises audio being rendered, and said  
4 visualization comprises a pattern of activation and deactivation of the LEDs  
5 corresponding to attributes of the audio being rendered.

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5 simultaneously specifying a series of rounds of activations and deactivations of said  
6 LEDs.

1 11. The wireless mobile phone of claim 9, wherein said wireless mobile phone further  
2 comprises a first storage medium having stored therein at least said first programming  
3 instructions of said visualization controller.

1 12. The wireless mobile phone of claim 11, wherein said wireless mobile phone  
2 further comprises second storage medium having stored therein at least a portion of  
3 said second programming instructions of said at least one visualization client.

1 13. The wireless mobile phone of claim 12, wherein  
2 said wireless mobile phone further comprises a body having one of at least two  
3 designs, a first design where at least a face plate of said body is substitutable with any  
4 one of a plurality of embodiments of said face plate and a second design where said  
5 body is at least partially coverable by a selected one of a plurality of embodiments of a  
6 covering skin; and

7 each of said embodiments of said face plate and covering skin comprises an  
8 electronic component including at least said second storage medium.

1 14. The wireless mobile phone of claim 13, wherein said electronic component  
2 further comprises said first storage medium.

1 15. The wireless mobile phone of claim 14, wherein first and second storage medium  
2 are the same storage medium.

1 16. The wireless mobile phone of claim 13, wherein each of said embodiments of  
2 said face plate and covering skin comprises a front facing exterior surface, and said  
3 LEDs being disposed on said front facing exterior surface.

1 17. The wireless mobile phone of claim 1, wherein said wireless mobile phone further  
2 comprises a body having an exterior surface, and said LEDs being disposed on said  
3 exterior surface.

1 18. The wireless mobile phone of claim 17, wherein said exterior surface is a  
2 selected one of a front exterior surface, a back exterior surface, a side exterior surface,  
3 a top exterior surface, and a bottom exterior surface of said body of said wireless mobile  
4 phone.

1 19. The wireless mobile phone of claim 1, wherein said wireless mobile phone further  
2 comprises a key pad having a plurality of keys, and said LEDs being integrally disposed  
3 with said keys.

1 20. The wireless mobile phone of claim 1, wherein said LEDs comprises single color  
2 LEDs of a plurality of colors, organized into groups.

1 21. The wireless mobile phone of claim 1, wherein said LEDs comprises at least one  
2 multi-color LED.

1 22. A wireless mobile phone comprising:  
2 a plurality of light emitting devices (LEDs);  
3 a visualization controller coupled to the LEDs to selectively activate and  
4 deactivate the LEDs as requested; and  
5 an event visualization client coupled to the visualization controller to request the  
6 visualization controller to selectively activate and deactivate the LEDs in a desired  
7 manner to effectuate visualization of an event of wireless mobile telephony.

1 23. The wireless mobile phone of claim 22, wherein the wireless mobile phone  
2 further comprises display means of a second type, in addition to said LEDs, for  
3 displaying alphanumeric data including menu and commands.

1 24. The wireless mobile phone of claim 22, wherein the event comprises at least a  
2 selected one of an incoming call, and a selection of a menu item.

1 25. The wireless mobile phone of claim 22, wherein  
2 said wireless mobile phone further comprises a processor to execute  
3 programming instructions;

said visualizer controller comprises first programming instructions designed to perform said selective activation and deactivation of selected ones of said LEDs as requested; and

said event visualization client comprises second programming instructions designed to perform said request of the visualization controller to effectuate said visualization of an event of wireless mobile telephony.

26. The wireless mobile phone of claim 25, wherein said wireless mobile phone further comprises a first storage medium having stored therein at least said first programming instructions of said visualization controller.

27. The wireless mobile phone of claim 26, wherein said wireless mobile phone further comprises second storage medium having stored therein said second programming instructions of said event visualization client.

28. The wireless mobile phone of claim 27, wherein  
said wireless mobile phone further comprises a body having one of at least two designs, a first design where at least a face plate of said body is substitutable with any one of a plurality of embodiments of said face plate and a second design where said body is at least partially coverable by a selected one of a plurality of embodiments of a covering skin; and

each of said embodiments of said face plate and covering skin comprises an electronic component including at least said second storage medium.

1 29. A wireless mobile phone comprising:  
2 a plurality of light emitting devcies (LEDs);  
3 a visualization controller coupled to the LEDs to selectively activate and  
4 deactivate the LEDs as requested; and  
5 a text visualization client coupled to the visualization controller to request the  
6 visualization controller to selectively activate and deactivate the LEDs in a desired  
7 manner to effectuate visualization of textual contents of wireless mobile telephony.

1 30. The wireless mobile phone of claim 29, wherein the wireless mobile phone  
2 further comprises display means of a second type, in addition to said LEDs, for  
3 displaying alphanumeric data including menu and commands.

1 31. The wireless mobile phone of claim 29, wherein said textual contents comprise at  
2 least a selected one of textual messages of a non-audible call, and textual contents of a  
3 web page.

1 32. The wireless mobile phone of claim 29, wherein  
2 said wireless mobile phone further comprises a processor to execute  
3 programming instructions;  
4 said visualizer controller comprises first programming instructions designed to  
5 perform said selective activation and deactivation of selected ones of said LEDs as  
6 requested; and



7           said text visualization client comprises second programming instructions  
8   designed to perform said request of the visualization controller to effectuate said  
9   visualization of textual messages of wireless mobile telephony.

1   33.   The wireless mobile phone of claim 32, wherein said wireless mobile phone  
2   further comprises a first storage medium having stored therein at least said first  
3   programming instructions of said visualization controller.

4   34.   The wireless mobile phone of claim 33, wherein said wireless mobile phone  
5   further comprises second storage medium having stored therein said second  
6   programming instructions of said text visualization client.

7   35.   The wireless mobile phone of claim 34, wherein  
8           said wireless mobile phone further comprises a body having one of at least two  
9   designs, a first design where at least a face plate of said body is substitutable with any  
10   one of a plurality of embodiments of said face plate and a second design where said  
11   body is at least partially coverable by a selected one of a plurality of embodiments of a  
12   covering skin; and  
13           each of said embodiments of said face plate and covering skin comprises an  
14   electronic component including at least said second storage medium.

15   36.   A wireless mobile phone comprising:  
16           a plurality of light emitting devices (LEDs);

3 a visualization controller coupled to the LEDs to selectively activate and  
4 deactivate the LEDs as requested; and  
5 a sound visualization client coupled to the visualization controller to request the  
6 visualization controller to selectively activate and deactivate the LEDs in a desired  
7 manner to effectuate visualization of audio of wireless mobile telephony.

1 37. The wireless mobile phone of claim 36, wherein the wireless mobile phone  
2 further comprises display means of a second type, in addition to said LEDs, for  
3 displaying alphanumeric data including menu and commands.

1 38. The wireless mobile phone of claim 36, wherein said audio comprises at least a  
2 selected one of audio output of a radio, audio being rendered by a MPx player, and  
3 audio being streamed to the wireless mobile phone.  
4

1 39. The wireless mobile phone of claim 36, wherein  
2 said wireless mobile phone further comprises a processor to execute  
3 programming instructions;  
4 said visualizer controller comprises first programming instructions designed to  
5 perform said selective activation and deactivation of selected ones of said LEDs as  
6 requested; and

7           said sound visualization client comprises second programming instructions  
8   designed to perform said request of the visualization controller to effectuate said  
9   visualization of audio of wireless mobile telephony.

1   40.   The wireless mobile phone of claim 39, wherein said wireless mobile phone  
2   further comprises a first storage medium having stored therein at least said first  
3   programming instructions of said visualization controller.

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41.   The wireless mobile phone of claim 40, wherein said wireless mobile phone  
further comprises second storage medium having stored therein said second  
programming instructions of said sound visualization client.

42.   The wireless mobile phone of claim 41, wherein  
said wireless mobile phone further comprises a body having one of at least two  
designs, a first design where at least a face plate of said body is substitutable with any  
one of a plurality of embodiments of said face plate and a second design where said  
body is at least partially coverable by a selected one of a plurality of embodiments of a  
covering skin; and  
each of said embodiments of said face plate and covering skin comprises an  
electronic component including at least said second storage medium.

43.   A wireless mobile phone comprising:  
means for emitting light;

3 visualization control means coupled to the light emitting means to selectively  
4 activate and deactivate the light emitting means as requested; and  
5 visualization client means coupled to the visualization control means to request  
6 the visualization control means to selectively activate and deactivate the light emitting  
7 means in a desired manner to effectuate visualization of one or more non-visual  
8 aspects of wireless mobile telephony.

1 44. The wireless mobile phone of claim 43, wherein the wireless mobile phone  
2 further comprises display means of a second type, in addition to said light emitting  
3 means, for displaying alphanumeric data including menu and commands.

4 45. The wireless mobile phone of claim 43, wherein said non-visual aspects  
5 comprise at least one of an event, a textual content, an audio being rendered.

1 46. The wireless mobile phone of claim 43, wherein the wireless mobile phone  
2 further comprises a radio for receiving and rendering radio programs, and said  
3 visualization client being also coupled to the radio, selectively requests said  
4 visualization control means to activate and deactivate the light emitting means in a  
5 desired manner to effectuate visualization of the radio programs being rendered.

1 47. An article of manufacture comprising  
2 a skin designed to at least partially cover a body of a wireless mobile phone; and

an electronic component embedded in said skin, the electronic component including storage medium having stored therein at least first programming instructions implementing a visualization client that requests a visualization controller to selectively activate and deactivate a plurality of light emitting devcies (LEDs) to visualize a non-visual aspect of wireless mobile telephony.

48. The wireless mobile phone of claim 47, wherein said visualization client is one of an event visualization client, a text visualization client, and a sound visualization client.

49. The wireless mobile phone of claim 47, wherein said storage medium further has stored therein second programming instructions implementing said visualization controller.

50. The wireless mobile phone of claim 47, wherein said storage medium further has stored therein second programming instructions implementing a MPx player.

51. The wireless mobile phone of claim 47, wherein each of said embodiments of said face plate and covering skin comprises a front facing exterior surface, and said LEDs being disposed on said front facing exterior surface.

52. A method comprising:  
monitoring a non-visual aspect of wireless mobile telephony; and

3 selectively activating and deactivate a plurality of light emitting devcies (LEDs) to  
4 visualize the non-visual of wireless mobile telephony based at least in part on the result  
5 of said monitoring.

1 53. The method of claim 51, wherein said non-visual aspects comprise an incoming  
2 event, and said visualization comprises a pattern of selective activation and deactivation  
3 of the LEDs denoting the arrival of the incoming call.

1 54. The method of claim 51, wherein said non-visual aspects comprise a menu item  
2 selection event, and said visualization comprises a pattern of selective activation and  
3 deactivation of the LEDs corresponding to a key stroking pattern to effectuate said  
4 menu item selection via the key stroking pattern.

1 55. The method of claim 51, wherein said non-visual aspects comprise an idle event,  
2 and said visualization comprises a pattern of selective activation and deactivation of the  
3 LEDs corresponding to a theme.

1 56. The method of claim 51, wherein said non-visual aspects comprise textual  
2 content of a non-audio call, and said visualization comprises a pattern of selective  
3 activation and deactivation of the LEDs corresponding to Morse code representations of  
4 the textual content.

1 57. The method of claim 51, wherein said non-visual aspects comprise textual  
2 content of a web page, and said visualization comprises a pattern of selective activation  
3 and deactivation of the LEDs depicting one or more graphics to complement the textual  
4 content.

1 58. The method of claim 51, wherein said non-visual aspects comprise sounds being  
2 rendered, and said visualization comprises a pattern of selective activation and  
3 deactivation of the LEDs corresponding to one or more attributes of the sound being  
4 rendered.

59. The method of claim 51, wherein said sounds are being rendered by a selected  
one of a radio of the wireless mobile phone, and a MPx player of the wireless mobile  
phone.